 Science Lesson

This assignment consists of three parts:

1. Lesson Plan
2. Teaching
3. Reflection

**Part 1: Lesson Plan – 10 points**

Below you will find a list of items to be included in your lesson plan. Each item from that list is accompanied by a brief explanation if needed. Please place all components of this less plan in order as they appear on this list.

Section 1: Pre-Planning

**Component 1: Title and Grade Level** – Provide a title to your lesson and targeted grade level.

**Component 2: Your name** – Include your name on your lesson plan.

**Component 3: Content to be taught** – Include background content for the lesson with 3 references (Wikipedia is

not a valued source).

**Component 4: Prior Knowledge**  - What prior knowledge is reasonable to assume that your target grade level

student would possess? How would you assess prior knowledge? Also in this

section, you should list any misconceptions that students at this age may have.

Section 2: Objectives

**Component 1: TEKS** – List the science TEKS addressed in your lesson.

**Component 2: Performance Objectives** – Provide a clear statement of what the students will do to demonstrate

their learning.

Section 3: Concept Development

**Component 1: Engage**

The Engagement is something motivational to “grab” the students’ interest about the concept being addressed in the TEKS. This may include a discrepant (something unexpected or surprising) event, (problem-solving group activity). An important question to ask…Does the engagement pique the students’ interest and invite them to explore the concept further?

**Component 2: Explore**

This section of the lesson plan is where students encounter and reflect on new content. It should be student-centered with teachers behaving as facilitators to the learning. It should provide opportunities for the learner to be actively involved in the exploration of the concept being addressed in the TEKS. This usually involves groups of students working together with “hands-on” materials to make and record careful observations, ask each other questions, and discuss what their observations may mean. An important question to ask…Does the exploration provide adequate opportunity for students to investigate and interact with each other?

**Component 3: Explain**

It is a structured time for students to openly discuss and question what they discovered during the exploration section. The teacher facilitates the discussion, adds clarification as needed, and introduces new vocabulary if appropriate. Explanations may be expressed through writing, through a diagram, orally, or kinesthetically through a simulation.

**Component 4: Elaborate**

Time for the learner to apply the TEKS concept within a relevant situation. This may involve the student to demonstrate the application of the concept in their daily life. An important question to ask…Does the elaboration require the student to apply their understanding of the TEKS concept in a different way?

**Component 5: Evaluate**

This is how you ultimately plan to measure how well your students learned your cognitive objectives. When creating an evaluation, try to match it with the way the class material was given. If you are teaching a lab skill, a multiple choice exam will never be the best way to measure student learning. Think of creative ways to assess learning.

Section 4: Accommodations

**Component 1: Accommodations -**  How will you ensure that all students have access to the information in

your lesson? Include strategies for ELL students.

**Part 2: Science Teaching – 5 points**

For this part of the assignment, you will teach one section (concept development) of your lesson to the class. This would preferably be the Engage, Explore, or Elaboration section of your lesson. Your lesson duration will vary depending on the component you choose, but should overall be no longer than 20 minutes. In addition to teaching your chosen component, you will express the other components of the lesson to give the class an overall idea of what you envision for the entire lesson.

**Part 3: Reflection – 5 points**

After you complete your teaching, the class will provide feedback to your lesson. Your task here is to compose a 1-page reflection on your teaching. Did everything go as planned? What went well? What would you change? Additionally, here you will turn in a second copy of your lesson with highlighted additions or changes.